

[Contest Home](#)[Coding Problems](#)

⌚ Time Left :

00 : 01 : 21 : 39[Finish Test](#)[</> Problem](#)[🕒 Submissions](#)

Geek Count



Accuracy: 0.0%

Submissions: 0

Points: 20

You are given a string `s` of lowercase letters. You have to count how many times "geek" is present in string `s` as a **subsequence**.

Note : The answer can be large so return the ans **modulo** $10^9 + 7$

Example 1:

Input:`s = geeks`**Output:**

1

Explanation:

In the string "geeks", "geek" appears as a subsequence exactly once. The characters at indices 0, 1, 2, and 3 form "geek".

Example 2:

Input:`s = geeksforgeeks`**Output:**

8

Explanation:

In the string "geeksforgeeks", there are 8 different ways to form "geek" as a subsequence. These ways correspond to picking characters from the following sets of indices:

0,1,2,3

0,1,2,11

0,1,9,11

0,1,10,11

0,2,9,11

0,2,10,11

0,9,10,11

0,0,10,11

[Menu](#)

Your Task:

You have to complete the function **geekCount()** , which takes a string **s** as input parameter and return the count of "geek" in **s** as a subsequence , with modulo $10^9 + 7$.

Constraints:

$1 \leq \text{length}(s) \leq 10^5$

s consists of lowercase latin alphabets

Seen this question in a real interview before ?

Yes

No

Python3



```
1
2 class Solution:
3     def geekCount(self, s : str) -> int:
4         # code here
5         target = "geek"
6         dp = dict()
7         def helper(i,j):
8             if i < 0 or j < 0:
9                 return 0
10            else:
11                if (i,j) not in dp:
12                    if s[i] == target[j] and j == 0:
13                        dp[(i,j)] = (helper(i - 1,j) + 1) % (10**9 + 7)
14                    elif s[i] == target[j]:
15                        dp[(i,j)] = (helper(i - 1,j - 1) + helper(i - 1,j)) %
16                    else:
17                        dp[(i,j)] = helper(i - 1,j)
18                return dp[(i,j)]
19            return (helper(len(s) - 1,3)) % (10**9 + 7)
20
21
22
23 ☐# } Driver Code Ends
```



Custom Input

Compile & Run

Submit

Menu



If you are facing any issue on this page, Please let us know.

